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APPLICATION NO.	Fl	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,850	(07/15/2003	Yukio Tanaka	0756-7177	4342
31780	7590	07/07/2005		EXAMINER	
ERIC ROB	INSON		NHU, DAVID		
PMB 955		ar.		ADTUNE	D. 1000 1111 1000
21010 SOUT				ART UNIT	PAPER NUMBER
РОТОМАС	FALLS, V	/A 20165		2818	
				DATE MAILED: 07/07/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/618,850	TANAKA ET AL.	(Chr)				
Office Action Summary	Examiner	Art Unit					
	David Nhu	2818					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence add	dress				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a repi y within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH s, cause the application to become ABAN	ly be timely filed 30) days will be considered timely. HS from the mailing date of this con NDONED (35 U.S.C. § 133).	mmunication.				
Status ·							
1) Responsive to communication(s) filed on 15 J	uly 2003.						
· — · · · · · · · · · · · · · · · · · ·	s action is non-final.						
3) Since this application is in condition for allowa							
Disposition of Claims							
4) ☑ Claim(s) <u>1-37</u> is/are pending in the application 4a) Of the above claim(s) <u>1</u> is/are withdrawn fr 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>2-37</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	om consideration.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the	= : :	•	TD 4 404/4\				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E							
Priority under 35 U.S.C. § 119	•						
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) ☐ Some * c) ☐ None of: 1. ☑ Certified copies of the priority documents have been received. 2. ☑ Certified copies of the priority documents have been received in Application No. 10/295,886. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
	Da	WO Da					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Su	immary (PTO-413)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>02</u>. 	Paper No(s)	/Mail Date ormal Patent Application (PTC	D-152)				

DETAILED ACTIONS

Double Patenting

Claims 2-37 of the application No. 10/618, 850 is rejected under the judicially created doctrine of obviousness-type double patenting over claims 1- 28 of U. S. Patent No. 6,635,505 B2 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application and similar language recited in the patent claims obviously depict a similar method having either same steps and/or same materials, and such is also disclosed in both the patent and the instant application.

Claims Objection

2. claims 8, 20, 32, "wherein an edge of the gate insulating film is aligned with a boundary between the second impurity regions and the third impurity regions" are not described/supported in the specifications.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 2-3, 8-9, 14-15, 20-21, 26-27, 32-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Minato et al (4,616,243).

Regarding claims 2, 8, 14, 20, 26, 32, Minato, (see figures 1-10, col. 1-10, col. 8, lines 30-61), teaches a method of manufacturing a circuit comprising: forming first and

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second semiconductor layers over a substrate; forming a gate insulating film over the first and second semiconductor layers; forming gate electrodes over the first and second semiconductor layers with the gate insulating film interposed; introducing a first impurity element into portions of the first and second semiconductor layers so as to form first impurity regions; introducing a second impurity element into portions of the first and second semiconductor layers so as to form second impurity regions in contact with the first impurity regions; introducing a third impurity element into portions of the first semiconductor layer so as to form third impurity regions in contact with the second impurity regions; forming wirings so as to be in contact with the third impurity regions (see col. 8, lines 30-61).

Regarding claims 3, 9, 15, 21, 27, 33, Minato also teaches the third impurity regions is higher than the second impurity regions, and a concentration of the second impurity regions is higher than the first impurity regions (see col. 8, lines 42-45).

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Tamaka'505, Nishimoto'751, Ishii'695, Iwashita'450, Ishijima'718, Momose'020 are cited as of interest.
- 6. A shortened statutory period for response to this action is set to expired 3 (three) months from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see 710.02 (b)).
- 7. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on

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Monday-Friday from 7:30 AM to 5:00 PM. The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the patent application information retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dail De

David Nhu

July 7, 2005